

Title (en)  
TRANSGENIC ANIMALS AND METHOD FOR BIOPRODUCTION

Title (de)  
TRANSGENE TIERE UND VERFAHREN ZUR BIOHERSTELLUNG

Title (fr)  
ANIMAUX TRANSGÉNIQUES ET MÉTHODE DE BIOPRODUCTION

Publication  
**EP 3562944 A4 20201216 (EN)**

Application  
**EP 17888225 A 20171229**

Priority  
• US 201662439896 P 20161229  
• US 2017068876 W 20171229

Abstract (en)  
[origin: WO2018126095A1] Provided is a genetically modified non-human mammal that comprises an anchor DNA sequence inserted at an endogenous locus of a secretory milk protein gene, wherein the anchor DNA sequence comprises a site-specific recombinase recognition site. Also provided is a genetically modified non-human mammal that comprises a transgene inserted at an endogenous locus of a secretory milk protein gene, wherein the transgene encodes a secretory protein and is operably linked to the endogenous promoter of said secretory milk protein gene, and wherein the transgene is flanked by a pair of site-specific recombinase resulting sites. The genetically modified non-human mammals provided can be used for producing the secreted recombinant protein encoded by the transgene from the milk produced by the genetically modified non-human mammals.

IPC 8 full level  
**C12N 15/62** (2006.01); **A01K 67/027** (2006.01); **C07K 14/00** (2006.01); **C07K 14/47** (2006.01); **C12N 15/11** (2006.01); **C12N 15/85** (2006.01); **C12N 15/90** (2006.01)

CPC (source: EP US)  
**A01K 67/0278** (2013.01 - EP US); **C07K 14/4732** (2013.01 - EP US); **C12N 9/22** (2013.01 - US); **C12N 15/11** (2013.01 - EP US); **C12N 15/907** (2013.01 - EP US); **A01K 2217/072** (2013.01 - EP US); **A01K 2227/107** (2013.01 - EP US); **A01K 2267/01** (2013.01 - EP US); **C12N 2310/20** (2017.05 - EP US); **C12N 2800/80** (2013.01 - US)

Citation (search report)  
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• [Y] WO 2013017555 A1 20130207 - LFB BIOTECHNOLOGIES [FR], et al  
• [Y] BUHLER TH A ET AL: "RABBIT -CASEIN PROMOTER DIRECTS SECRETION OF HUMAN INTERLEUKIN-2 INTO THE MILK OF TRANSGENIC RABBITS", BIOTECHNOLOGY. THE INTERNATIONAL MONTHLY FOR INDUSTRIAL BIOLOGY, NATURE PUBLISHING GROUP, US, vol. 8, no. 2, February 1990 (1990-02-01), pages 140 - 143, XP000087715, ISSN: 0733-222X, DOI: 10.1038/NBT0290-140  
• [Y] BRANDA C S ET AL: "Talking about a revolution: The impact of site-specific recombinase on genetic analyses in mice", CELL, US, vol. 6, no. 1, 2004, pages 7 - 28, XP002994211, ISSN: 1097-4172, DOI: 10.1016/S1534-5807(03)00399-X  
• [Y] NAKAYAMA ET AL: "Homologous recombination in human iPS and ES cells for use in gene correction therapy", DRUG DISCOVERY TODAY, ELSEVIER, AMSTERDAM, NL, vol. 15, no. 5-6, March 2010 (2010-03-01), pages 198 - 202, XP026946349, ISSN: 1359-6446, [retrieved on 20100129], DOI: 10.1016/J.DRUDIS.2010.01.006  
• See also references of WO 2018126095A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2018126095 A1 20180705**; CN 110177878 A 20190827; CN 110177878 B 20231103; EP 3562944 A1 20191106; EP 3562944 A4 20201216; US 11647737 B2 20230516; US 2019335729 A1 20191107

DOCDB simple family (application)  
**US 2017068876 W 20171229**; CN 201780081794 A 20171229; EP 17888225 A 20171229; US 201716475127 A 20171229